Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Neomycin Sulfate USP Micronized
Commercial Name Not applicable
Product Use Antibiotic
Restrictions On Use Not available

Product Code 30-1167

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Sensitization, skin Category 1 Rerproductive toxicity Category 1

Signal Word WARNING

Hazard Statement(s) May cause an allergic skin reaction. Harmful to aqatic life with long lasting effects. May form combustible dust concentrations in air.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Neomycin Sulfate
% By Weight 100
CAS# 1405-10-3
Molecular Weight 908.89g/mole
Chemical Formula C23H46N6O13.3H2SO4
Synonym(s) Neomycin sulfate

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Neomycin sulfate	1405-10-3	100		Rat Oral LD50 2750mg/kg

Section 4: First-Aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin Contact Remove contaminated clothing. Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

Eye Contact Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Symptoms/Effects

Acute Irritant effects. Pharmacologically active material. Occupational exposure may cause physiological effects.

Delayed Not available

Immediate Medical Attention

Treat symptomatically. Treatment of aminoglycoside overdose may include: Administer activated charcoal as a slurry. For mild/moderate allergic reactions, administer antihistamines with or without inhaled beta agonists, corticosteroids or epinephrine; for severe reactions add aggressive airway management, oxygen, ECG monitoring, and intravenous fluids. Maintain urine output with IV fluids in patients with normal renal function. Consider dialysis in patients with renal failure. Complexation with intravenous ticarcillin may be effective.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media

None known.

Products of Combustion

No unusual fire or explosion hazards noted

Firefighters Special Equipment and Precautions

Wear suitable protective equipment. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling: As a general rule, when handling USP materials, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Exposure Limits TWA 100 micrograms/m3

Engineering Controls For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Personal Protection

Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Handling practices in this SDS are recommendations for laboratory use of USP materials.

Section 9: Physical and Chemical Properties

Appearance	White to light yellow powder.
Odor	Odorless. Faint odor
Odor Threshold	Not available

Melting Point	No data available.	**pH**	Not available
Freezing Point	Not available	**Vapor Pressure**	No data available.
Boiling Point/Range	No data available.	**Vapor Density**	No data available.
Decomposition temperature	Not available	**Viscosity**	No data available.
Partition Coefficient: n-octanol/water	< -2	**Evaporation Rate**	Not available
Flash Point	No data available.	**Autoignition temperature**	Not available
Flammability	Not available	**Flammability or Explosive Limits:**	
		Lower	Not available
		Upper	Not available

Solubility(ies)	Freely soluble.
Other	Acetone: Insoluble. Alcohol: Very slightly soluble. Chloroform: Insoluble. Ether: Insoluble. pH in aqueous solution 5 - 7.5 Solution: 3.3%

Section 10: Stability and Reactivity

Reactivity	he product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions
Hazardous Polymerization	No dangerous reaction known under conditions of normal use
Conditions to Avoid	Contact with incompatible materials
Incompatible Materials	Acids
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. SOx. NOx

Section 11: Toxicological Information

RTECS QP4375000

Acute Toxicity
Oral: LD50 Mouse 2880 mg/kg, Rat 2750 mg/kg

Skin Corrosion/Irritation
Causes skin irritation.

Serious Eye Damage/Irritation
Causes eye irriation.

Respiratory or Skin Sensitization
May cause an allergic skin reaction. Contact dermatitis has been reported in literature following the therapeutic use of aminoglycosides.

Germ Cell Mutagenicity
Not available

Carcinogenicity
Not available.

Reproductive Toxicity
May damage fertility or the unborn child. Therapeutic use of aminoglycosides during pregnancy has been reported to cause kidney damage and deafness in the human fetus.

Routes of Entry
Skin. Eye.

Symptoms Related to Exposure
Aminoglycosides: Hearing problems. Clumsiness. Dizziness. Change in frequency or amount of urination. Thirst. Loss of appetite. Numbness or tingling of skin. Gastrointestinal disturbances.

Potential Health Effects
Not available

Target Organ(s) Not available

Section 12: Ecological Information

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistance and Degradability
Not available

Bioaccumulative Potential
log Kow < -2

Mobility in Soil
Not available

Other Adverse Effects
Not available

Section 13: Disposal Considerations

Waste Disposal
Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Disposal of Container
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

Other Considerations
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14: Transport Information

DOT Classification
Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

Section 15: Regulatory Information

Regulations
US federal regulations Toxic Substances Control Act (TSCA) TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. SARA 302 Extremely hazardous substance Superfund Amendments and Reauthorization Act of 1986 (SARA) Not listed. YesSARA 311/312 Hazardous chemical Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Reproductive toxicity Classified hazard categories SARA 313 (TRI reporting) Not regulated Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated.Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 California Proposition 65 - CRT: Listed date/Developmental toxin Neomycin Sulfate (CAS 1405-10-3) Listed: October 1, 1992

Other
Not available.

Section 16: Other Information

Data Sources: Pfizer proprietary drug development information. Publicly available toxicity information.